

Description

Subminiature magnetic receiver (Balanced Armature Type) for use in In The Canal and Completely In the Canal applications with standard response. Provided with a mumetal cap for improved robustness and decreased magnetic radiation.



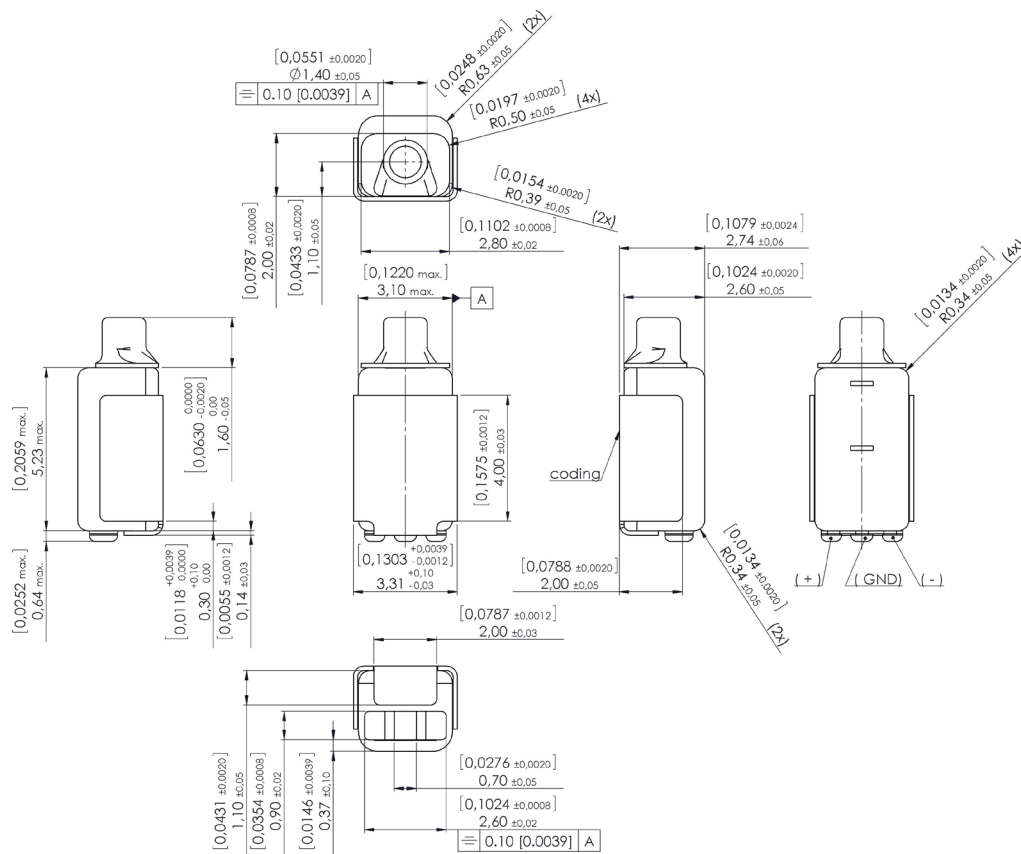
Features

- Excellent for mini BTE, ITE, ITC and CIC applications
- Improved efficiency
- Improved maximum LF output
- Center tap connected to case

Mechanical data

Weight	0.20 gr.
Case material	Ni80Fe15Mo5
Solder pad material	Sn96.5Ag3.0Cu0.5
Dimensions	Refer to outline drawing

Product drawing - Dimensions in mm [inch]



Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible. Receivers series of this type can produce very high sound pressure levels. When such receivers are applied in hearing instruments or other communications equipment special attention should be paid to this capacity in order to prevent possible hearing damage.

Specifications

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.

Constant voltage drive of 0.18 V RMS (0.35 mVA @ 500 Hz).

Environmental conditions: 23°C (73.4F), 50% RH.

Parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	102	105	108	dB	
	@ 500 Hz	100.5	103.5	106.5	dB	
	@ 1000 Hz	98.5	101.5	104.5	dB	
Peak 1	frequency	2375	2550	2725	Hz	
	output	103	106	109	dB	
Valley 1	frequency	3600	4350	5100	Hz	
	output	91	94		dB	
Peak 2	frequency	4650	5150	5650	Hz	
	output	93.5	96.5	99.5	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency				126	dB	@ 100 mVA input

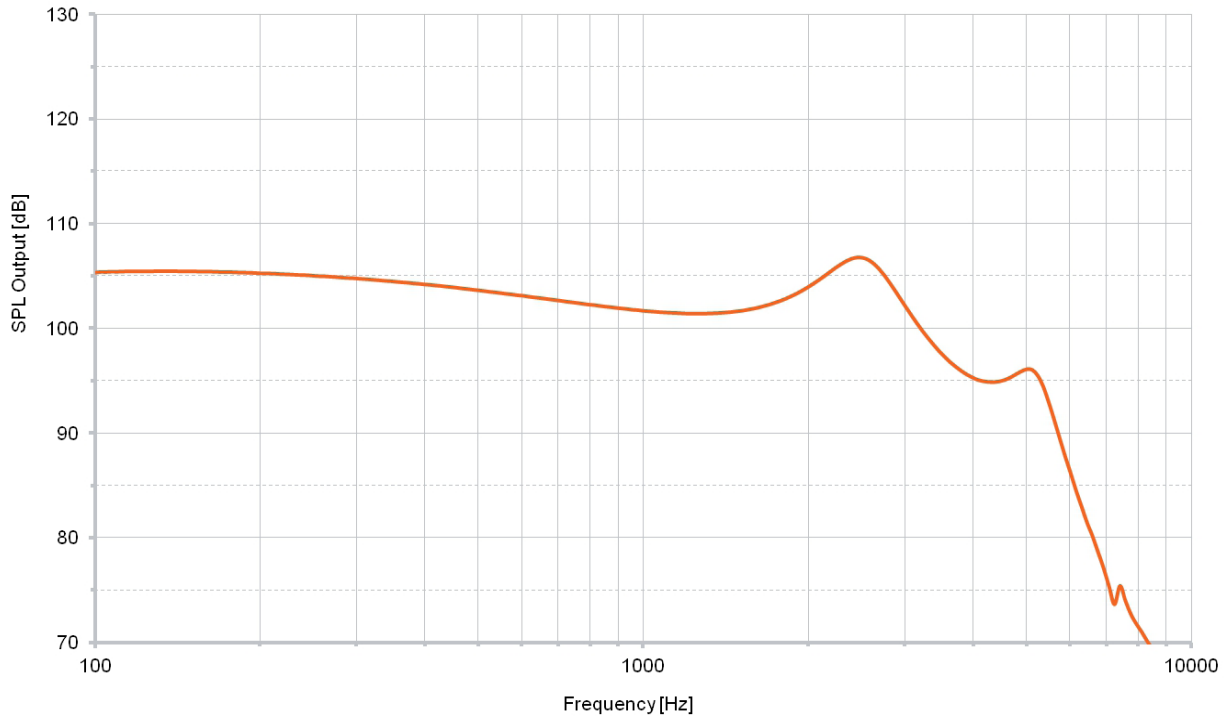
Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	123	145	166	Ohm	
Impedance @ 500 Hz	72	90	108	Ohm	
DC resistance @ 20°C	59	66	73	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	14000			g	90% survival rate with THD @ 1/2 peak frequency < 10%
Storage temperature range	-40		63	°C	

A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.

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Typical response curve



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